



Sample Program Code and Screenshot – C# Solution

Included are a screenshot and function example of the running program. You will have full access to the entire codebase and technical documentation after purchase.

Sample Screenshot

Here is a screenshot of the input for the events. All 20 individual have been pre-registered and the code is now putting different scores in the correct location according to where an individual finishes.

```
*
*****
*****
***** welcome to the company event registration system *****
*****
*****
Which type of event are you recording scores for?
press M for multiple events, S for a single event: s

You are running a single event

press A for academic, S for sporting: a
please enter the name of the individual who finished at position 1: g
congratulations, g scored 22 points

|ID:      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|NAME:    | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t |
|SCORE:   | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

please enter the name of the individual who finished at position 2: d
congratulations, d scored 21 points

|ID:      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|NAME:    | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t |
|SCORE:   | 0 | 0 | 0 | 21 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

please enter the name of the individual who finished at position 3: j
congratulations, j scored 20 points

|ID:      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|NAME:    | a | b | c | d | e | f | g | h | i | j | k | l | m | n | o | p | q | r | s | t |
|SCORE:   | 0 | 0 | 0 | 21 | 0 | 0 | 22 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
```



Sample Code – C# Solution

The following code is a fragment of the entire available code for the solution, all fully commented to aid understanding. This function is the code for running a single event for an individual.

```
/// <summary>
/// function for running a single event for an individual.
/// the function works out if the event to be scored is either academic or
sporting
/// the function will simply loop through the individual score array adding
the scores as necessary
/// a simple lookup function could have been added to add the score for a
specific individual, but this
/// would form part of the interview process with stakeholders.
/// </summary>
public void RunSingleIndividualEvent(string eventType)
{
    string individualName = "";
    string inputChoice = "";
    bool validInput;
    int counter = 0;

    //loop through the array starting at column index 1
    //this loops through all the 20 individuals
    for (int i = 0; i < 20; i++)
    {
        //as we are looping multiple times, we must reset this
validation flag to false
        //otherwise the first time it is set to TRUE it'll never
reset.

        validInput = false;
        //get the individuals name from row 1

        Console.WriteLine($"please enter the name of the individual who
finished at position {i+1}: ");
        individualName = Console.ReadLine().ToLower();

        //individualName = individualScores[1, i];
        //inner loop to search through the array to find the
individual

        for (int j = 1; j < 21; j++)
        {
            string temp = individualScores[1, j];

            if (individualName == temp)
            {
                if (inputChoice == "a")
                {
                    //get the current score out of the array
                    //convert it from an string to an integer
                    int currentScore =
int.Parse(individualScores[2, j]);

                    //add the set academic score

```



```
int newScore = currentScore +
(individualAcademicEventScore - counter);

Console.WriteLine($"congratulations,
{individualName} scored {teamAcademicEventScore - counter} points");

//convert the number back to a string, and add
it into row 3 of the 2D array where the scores are to be stored
individualScores[2, j] = newScore.ToString();
}
else
{
//get the current score out of the array
//convert it from an string to an integer
int currentScore =
int.Parse(individualScores[2, j]);

//add the set sporting score
int newScore = currentScore +
(individualSportingEventScore - counter);

Console.WriteLine($"congratulations,
{individualName} scored {individualSportingEventScore - counter} points");

//convert the number back to a string, and add
it into row 3 of the 2D array where the scores are to be stored
individualScores[2, j] = newScore.ToString();
}

counter++;
break;
}

Console.WriteLine();

//show the scores table after each score has been added.
displayIndividualScoresTable();
Console.WriteLine();
}

Console.Write("\n\npress any key to continue.....");
Console.ReadLine();
}
```